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Synthesis and membrane-transport properties of phosphorylated diamines, azapodands and their derivatives

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Abstract

© 2018, © 2018 Taylor & Francis Group, LLC. Membrane–transport properties of synthesized phosphorylated azapodands of a series of metals of I groups were studied. The investigation of the processes of passive membrane ion transport showed the phosphorylated azapodands 2 and 3 were the most selective with respect to the lithium ion. A monophosphorylated podand, which contain a heterocyclic nitrogen atom 8-(1-diamylphosphoryl-3,5-dioxapentane) quinoline 7 was synthesized. The molecular structure of the complex of a podande 7 with a copper ion was determined by the method of X-ray analysis.

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Keywords

aminophosphoryl compounds, membrane-transport properties, phosphorylated azapodands, Synthesis

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